

Automated Blood Coagulation Analyzer

# CS-5100™

Exceptional productivity,  
true clinical value.





# High-throughput testing, quality results

Sysmex hemostasis solutions bring together advanced technology, trusted reagents and award-winning service to provide laboratories with reliable results for diagnosing and treating their most critical patients. The CS-5100 Automated Blood Coagulation Analyzer utilizes PSI™ technology and advanced simultaneous multi-wavelength analysis to ensure high-quality routine and specialized testing for high-volume laboratories.

The CS-5100 is a fast and reliable solution for specialty hemostasis laboratories that need to streamline and simplify workload. Consolidating a wide range of hemostasis testing in a single instrument, the CS-5100 employs transmitted light detection for clot analysis, and chromogenic, immunoturbidimetric and aggregation\* technology for specialty testing. Rapid throughput and high-quality results make this a truly exceptional analyzer for busy hemostasis laboratories.

## Analyze confidently

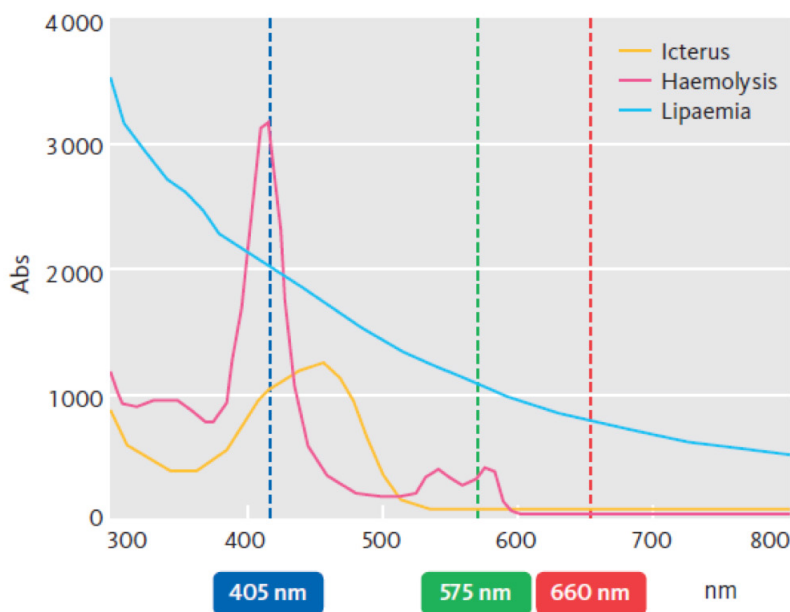
Sysmex is known for developing innovative analyzers that are designed to be intuitive and easy to use. The CS-5100 is no exception, offering many advantages for your lab:

- Extremely high throughput to tackle large workloads
- Optional connectivity to Total Laboratory Automation (TLA) systems
- Preanalytical sample checks for hemolysis, icterus and lipemia as well as tube fill volume
- Utilization of simultaneous multi-wavelength technology for high-quality results
- Cap piercing and ability to process sample racks with mixed tube types
- Single bolus aspiration for all testing with continuous sample loading and random access
- Rule-based rerun and reflex testing to maximize walkaway capability
- Comprehensive reagent management ensures efficient identification, loading and use of reagents
- Access to Sysmex Network Communications System (SNCS) for proactive monitoring of your analyzer

\*For research use only, not for use in diagnostic procedures. RUO assays must be validated before use in clinical practice.

# Sample integrity checks for peace of mind

Unsuitable samples can be a source of incorrect results or lead to increased hands-on time for laboratory scientists. The Sysmex PSI (Preanalytical Sample Integrity) technology is able to identify when sample tubes are underfilled- or overfilled and scans for interferences caused by hemolysis, icterus and lipemia. Simultaneous multi-wavelength detection determines the ideal wavelength for analyzing each sample, greatly elevating the quality of the results. Sample interference is graded and flagged by the analyzer and results can be accepted or rejected based on laboratory policies and procedures.



By performing pre-measurement photometry on the initial bolus, the system can display hemolysis, icterus and lipemia status as a flag. The laboratory can set thresholds for each flag and measurement parameter.

## High diagnostic value

To ensure quality results, the CS-5100 employs photo-optical clot detection which allows the display of the full clot signature. The CS-5100 also offers multiple patient sample dilutions for single coagulation factor analysis and automated, rule-based repeat and reflex testing means you get the results you need with no additional intervention.



# Analyze confidently

Advanced technology and operational features on the CS-5100 help your lab increase efficient use of staff:

- Performs a wide spectrum of basic and specialized testing, allowing your lab to streamline workflow without the need for other equipment.
- Advanced reagent management optimizes reagent loading and usage, and extended on-board reagent stability may help reduce operational costs for your lab.
- As an option, the CS-5100 can be connected to a total laboratory automation (TLA) line for direct sampling, sample tracking and enhanced workflow.
- Remote access capabilities through SNCS allow Sysmex to proactively monitor your analyzer, helping to prevent downtime or keeping it to a minimum.

## Key Specifications

<b>Model</b>	CS-5100™
<b>Detection Methodology</b>	Clotting, chromogenic, immunoturbidimetric, aggregometry
<b>Wavelengths</b>	340 nm, 405 nm, 575 nm, 660 nm, 800 nm
<b>No. of Detector Channels</b>	20
<b>Throughput</b>	PT: 400 tests/hour PT/aPTT: 400 tests/hour
<b>Available Assays</b>	<ul style="list-style-type: none"><li>• PT</li><li>• APTT</li><li>• Fibrinogen</li><li>• Thrombin Time</li><li>• Reptilase Time</li><li>• Factor Activity</li><li>• Lupus Anticoagulant</li><li>• Thrombophilia</li><li>• Heparin</li><li>• D-Dimer</li><li>• Von Willebrand factor</li><li>• Fibrinolysis</li></ul>
<b>Reagent Positions</b>	45
<b>Data Storage</b>	Up to 10,000 samples
<b>Quality Control</b>	Levey-Jennings; Westgard multi-rule
<b>Dimensions and Weight</b>	40.6" (W) x 45.3" (D) x 50.4" (H); 617 lbs 1030 mm (W) x 1150 mm (D) x 1280 mm (H); 280 kg

*\*For research use only, not for use in diagnostic procedures. RUO assays must be validated before use in clinical practice.*

### Sysmex Corporation

1-5-1-Wakinohama-Kaigandori Chuo-ku, Kobe 651-0073, Japan · Phone +81 78 265-0521 · [www.sysmex.co.jp](http://www.sysmex.co.jp)

### Sysmex America, Inc.

577 Aptakisic Road, Lincolnshire, IL 60069, U.S.A. · Phone +1 800 379-7639 · [www.sysmex.com/us](http://www.sysmex.com/us)

### Sysmex Canada, Inc.

5700 Explorer Drive Suite 200, Mississauga, ON L4W0C6 Canada · Phone +1 905 366-7900 · [www.sysmex.ca](http://www.sysmex.ca)

### Sysmex Latin America and the Caribbean

Rua Joaquim Nabuco 615 - Bairro Cidade Jardim, São José dos Pinhais Paraná - Brasil - CEP 83040-210 · Phone +55 41 2104-1314 · [www.sysmex.com.br](http://www.sysmex.com.br)